

Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

will not be benefited by carbonuc why not? The extract from Professor Johnson Whill solvely acquire for a value of grass lands in the highlands of Scotland have yielded good crops of from time immemorial without being manured by man, but that is proof that they are not well manured. The droppings of the sheep other stock are washed down the mountain sides into the valleys, and the lowlands in the vicinity of mountain streams the grass lands are conflooded during winter, and in both cases excellent crops of hay are real both in quantity and quality.

The rich corn lands and grass lands of England and Ireland may be the same position as the Scotch valleys, in mountain districts they will and likewise where irrigated by floods; but should any owner of glands expect the carbonic acid gas of the atmosphere to enrich his pasture will reap disappointment.

Professor Johnson says: "Every crop takes away from the soil a cer quantity of those substances which all plants require. If you are altoward the will reap disappointment, and the form of crops; and if he is always to the same position, it will at last become empty. The farmer takes the carbonic acid gas of the stream of the is always to the same position of a purse, it will at last become empty or exhausting the carbonic acid gas of the stream of the is always to the same position of the same position of crops; and if he is always to the same position of the same position of crops and if he is always to the same position of the same position of crops and if he is always to the same position of the same position of the same position of crops and if he is always to the same position of the same position of crops are also the same position of the same position of the same position of the same position of same position the position of same position of same position of same position the position of same position of same position of same position the position of same position the position of same position the same position the position of same position the position that not be benefited by carbonic acid gas as well as other soils? and if not, remarks upon and in both cases excellent crops of hay are reaped mountain streams the grass lands are often mountain sides into the valleys, and in Scotland have yielded good crops of hay being manured by man, but that is no Does Mr. Burrows mean that siliceous droppings of the sheep and ", Some may soils, but a very grass acres

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the atmosphere to enrich his pastures, grass be

and if he is always taking empty or exhausted. takes his certain always

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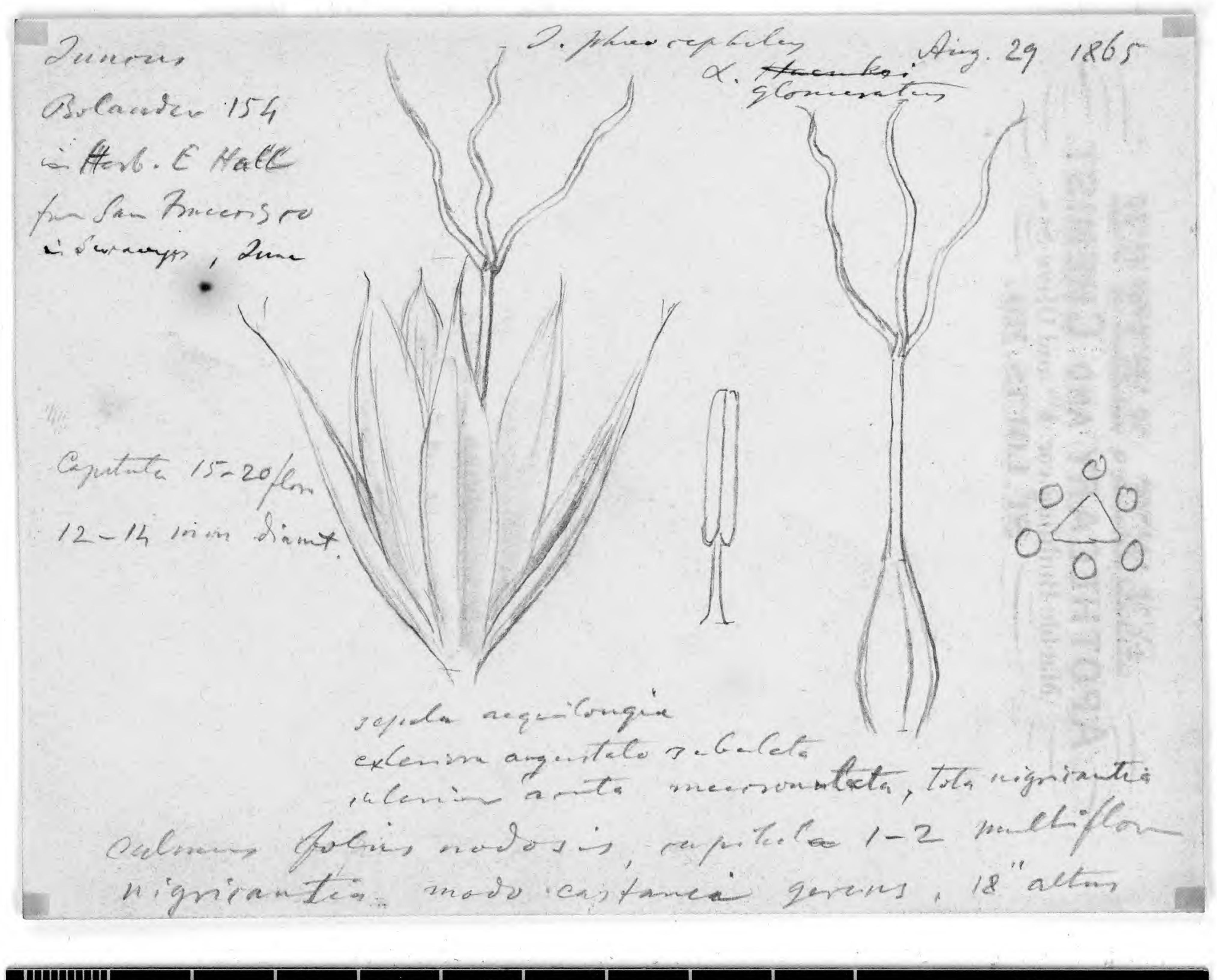
per the ploughing the greater the effects; drainage

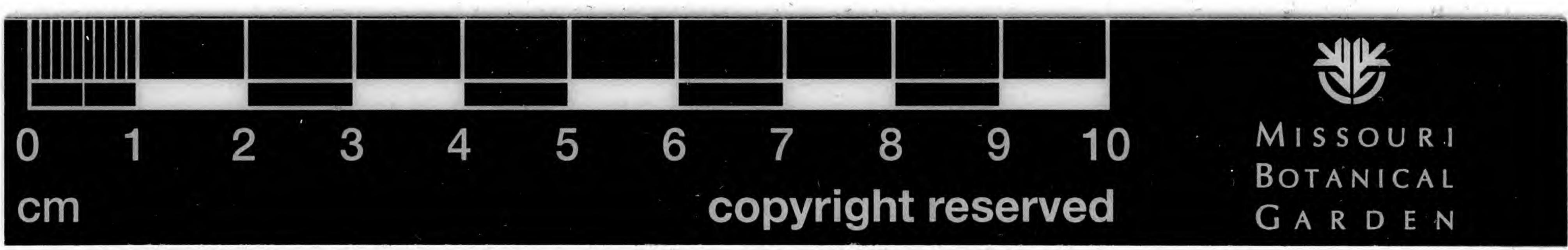
1880.

produce nearly the same effects inches of the tile, at the same regular digging or trenching s the land is more indeb that is laid in the bottom of it, ar to the action of the uch advantage in drawing the soil t that the more retentive the soil may be. for there is no doub is ploughed up, which would y-cut drain than to the tile am inclined to think cut drain; the newl more

there is generally too little atten consequently the more reter water they may have to carry off, ittle attention will show that the It should also act as a conductor being generally thought that i tiles put in, it er thing I would remark, that large enough to contain the that is required; but the size of the are surface paid

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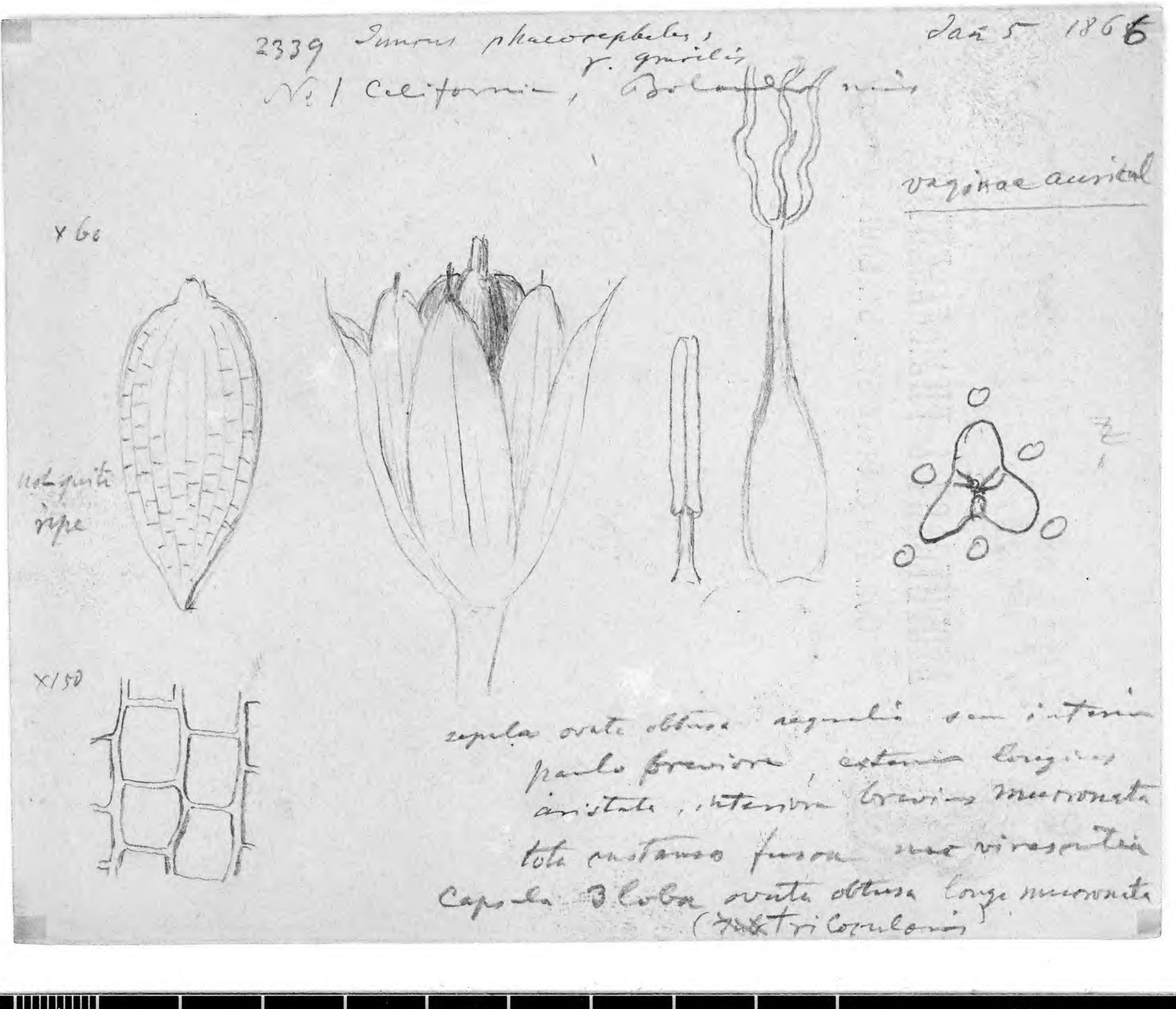




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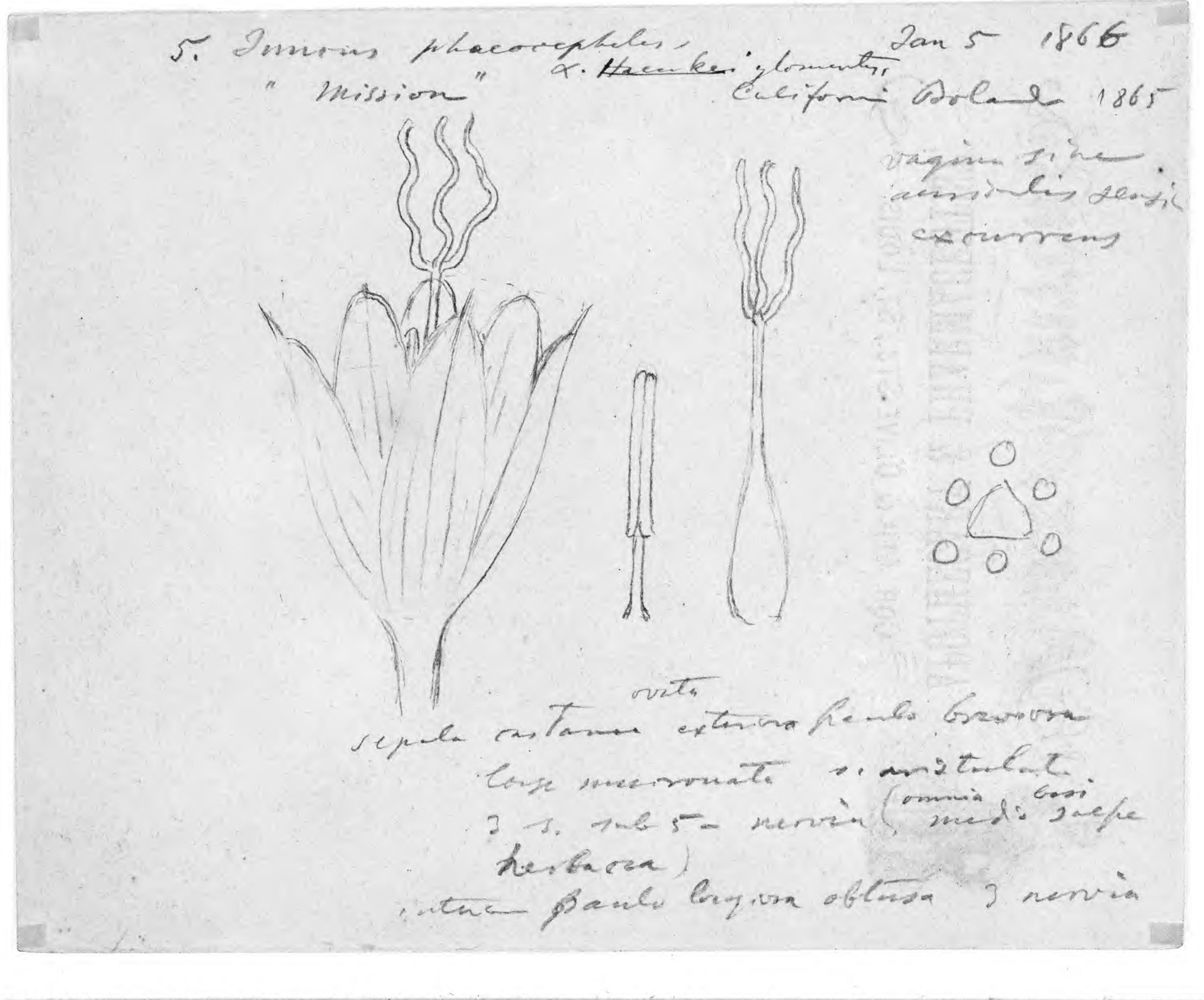






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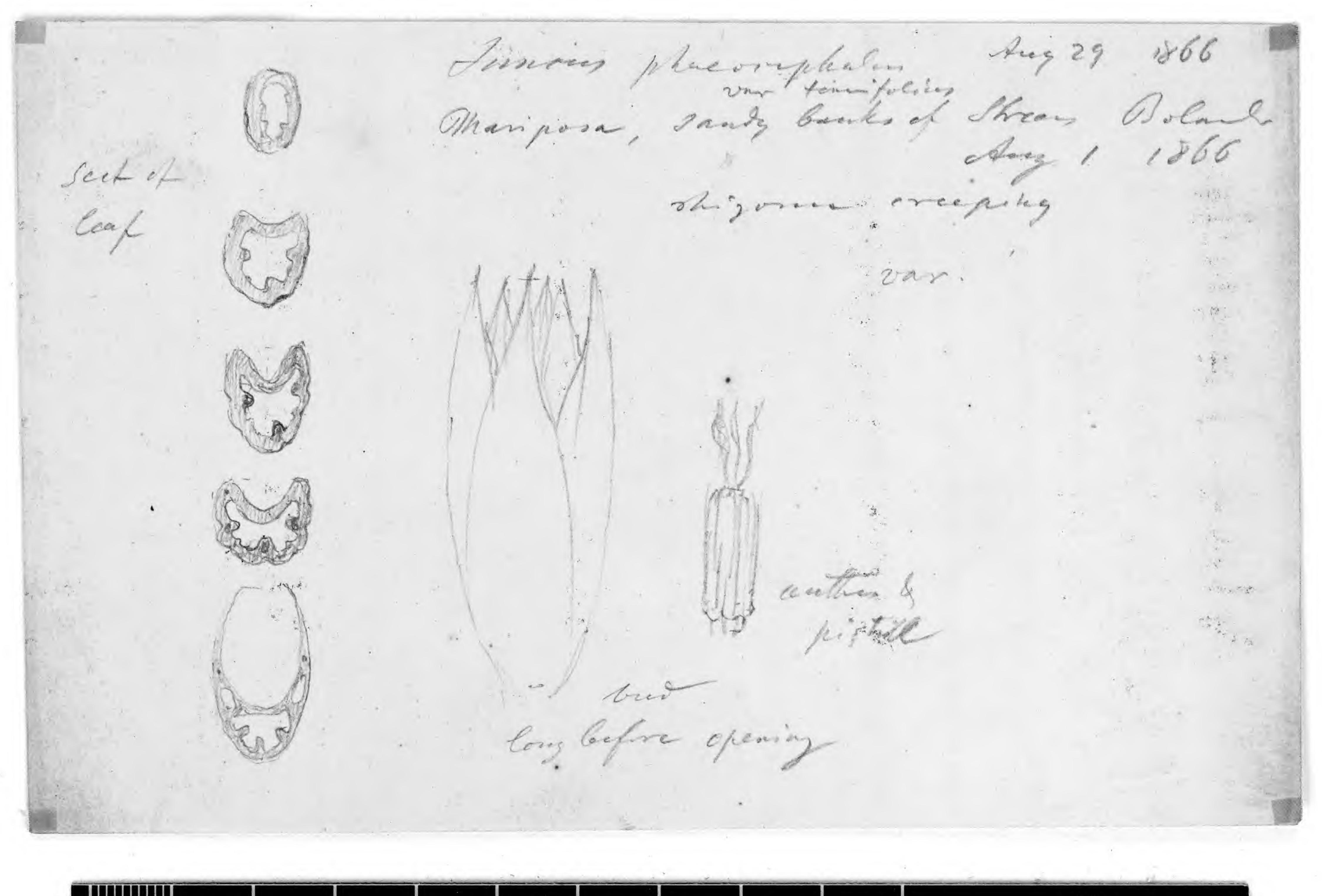




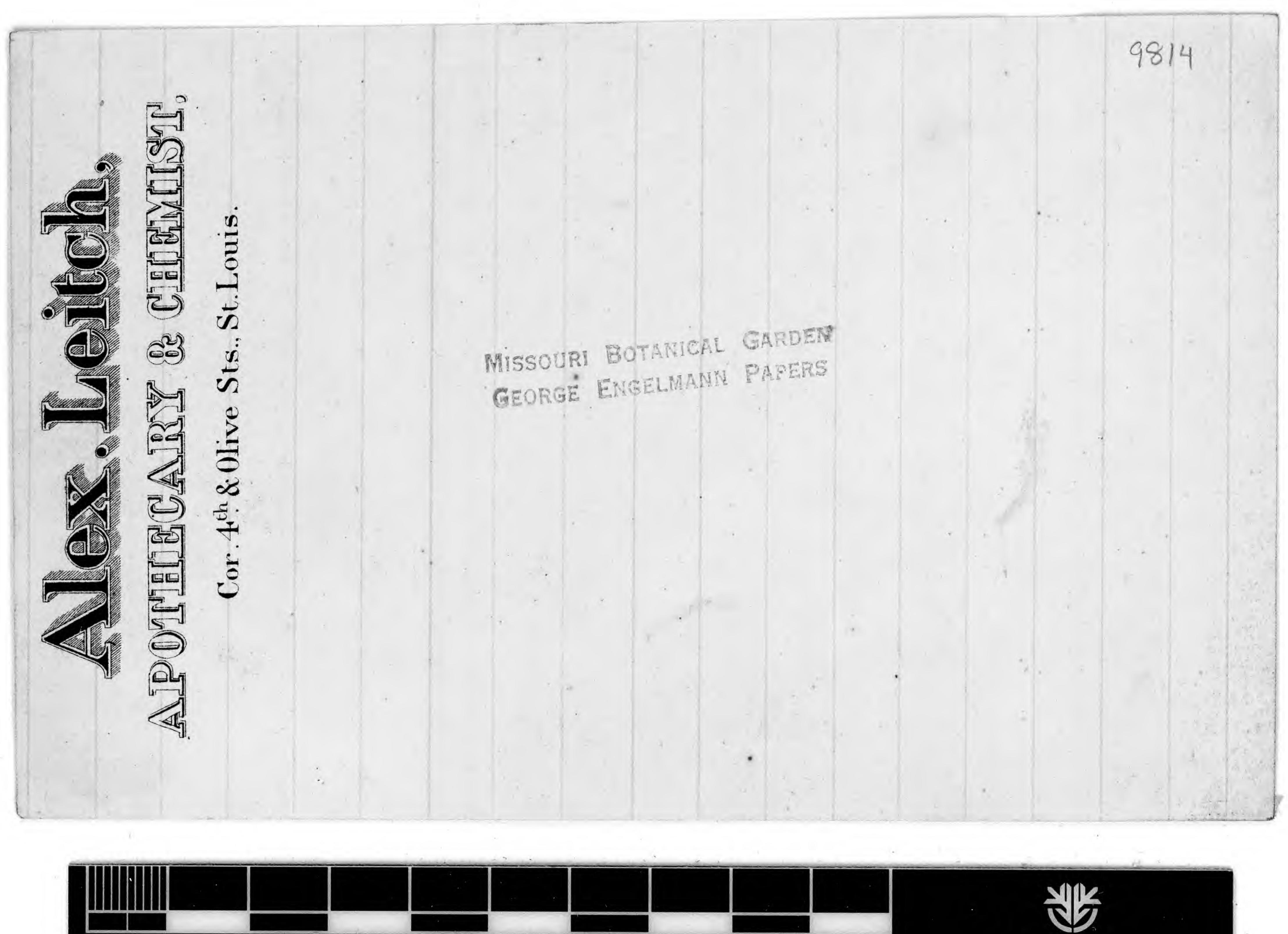


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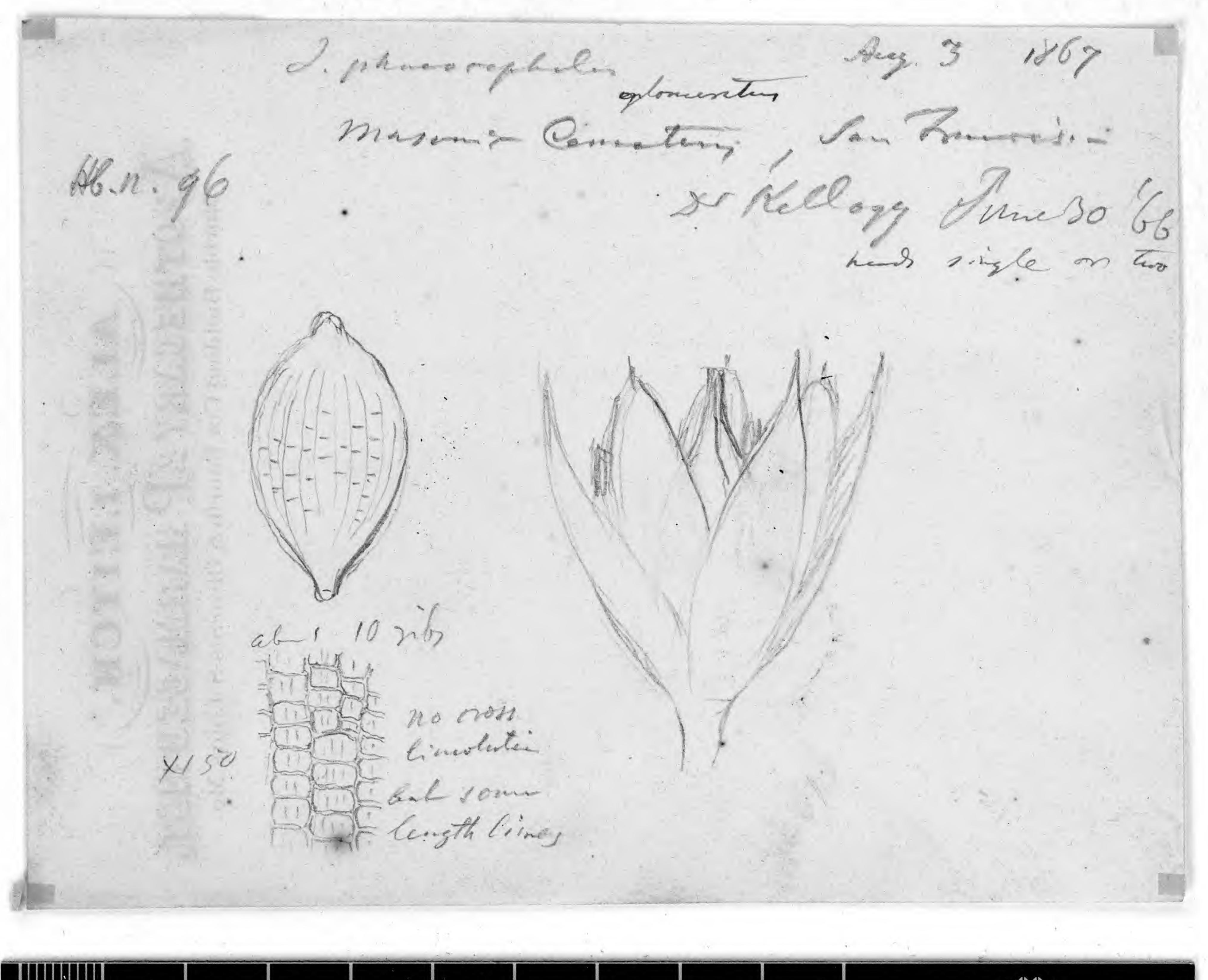
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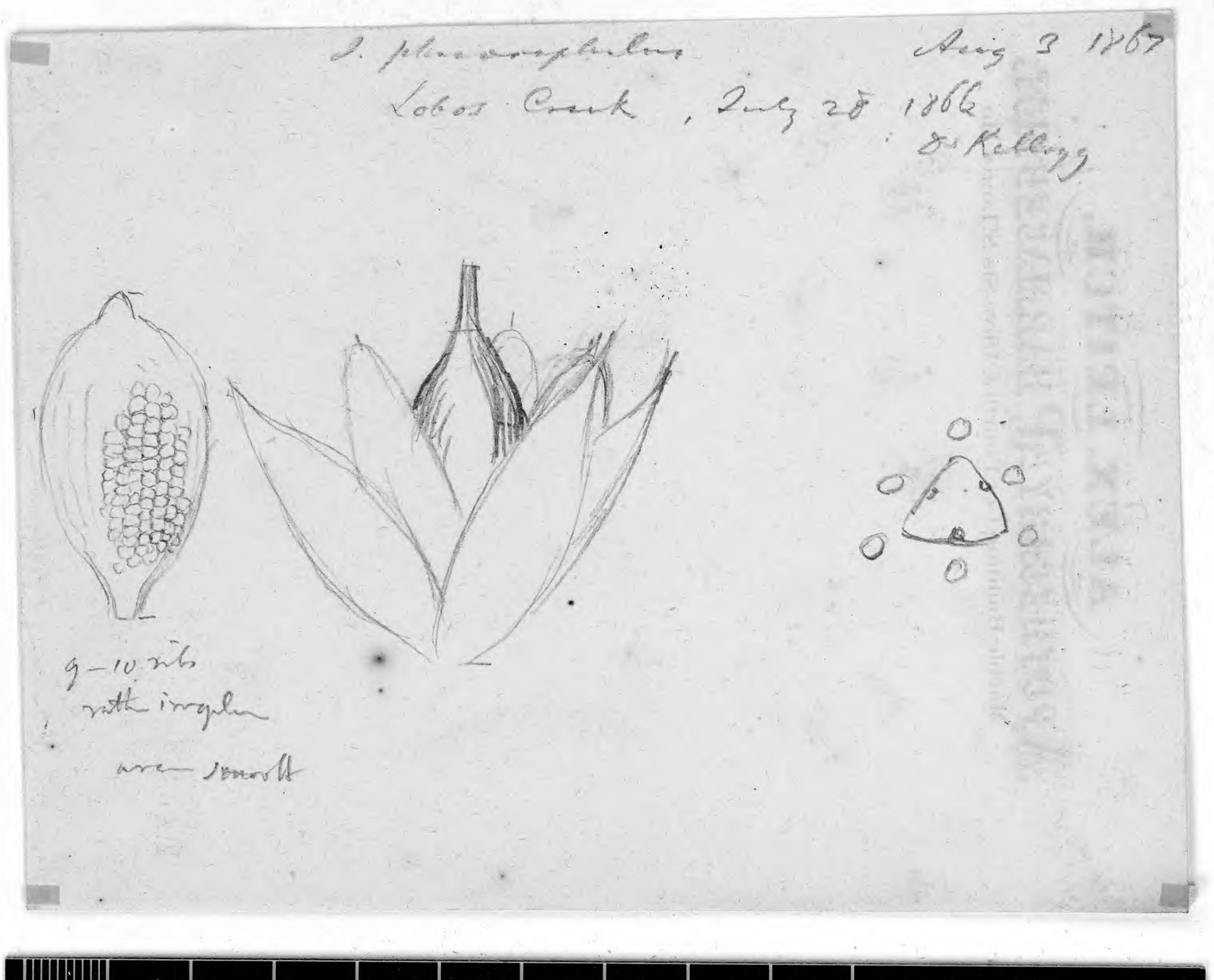






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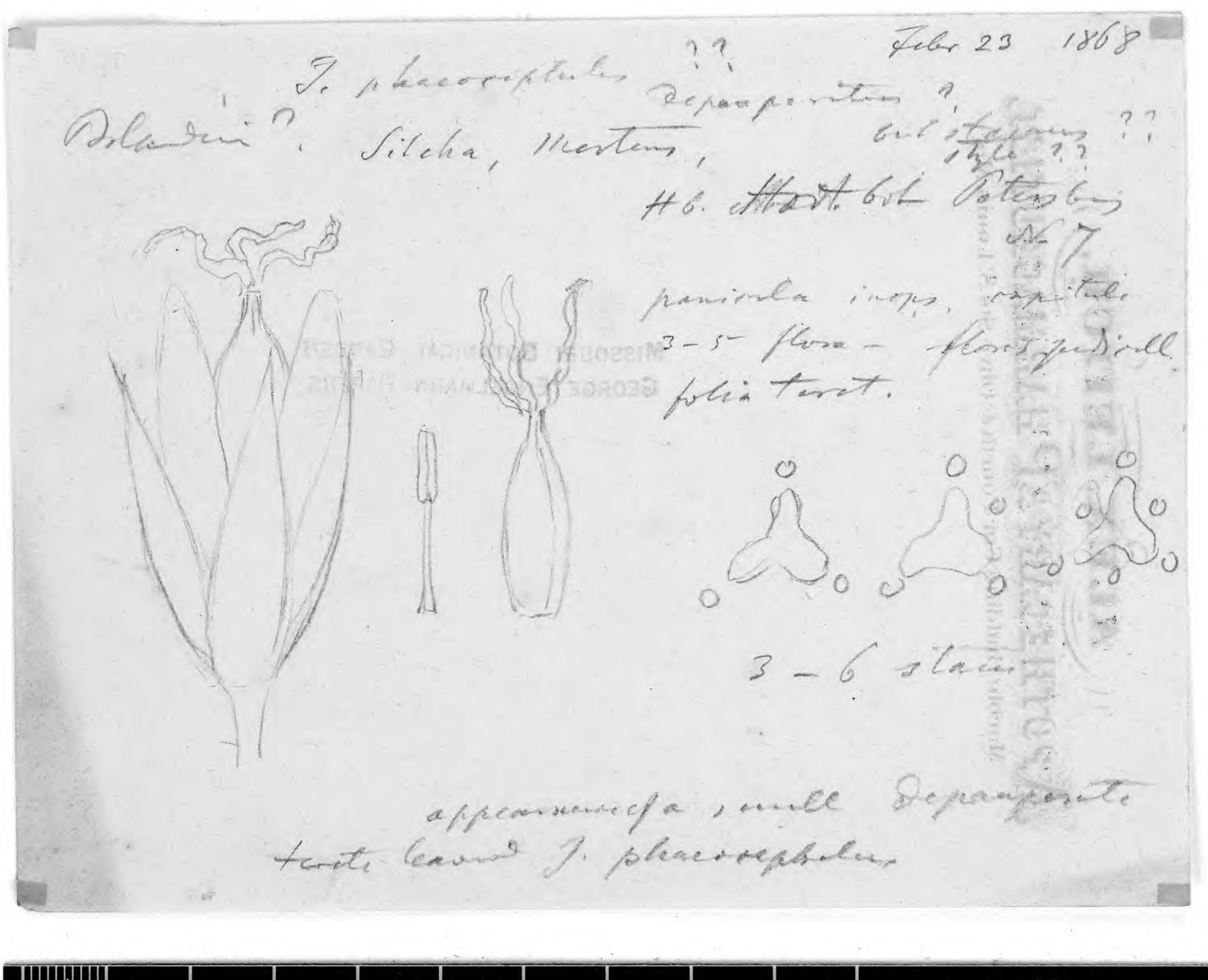






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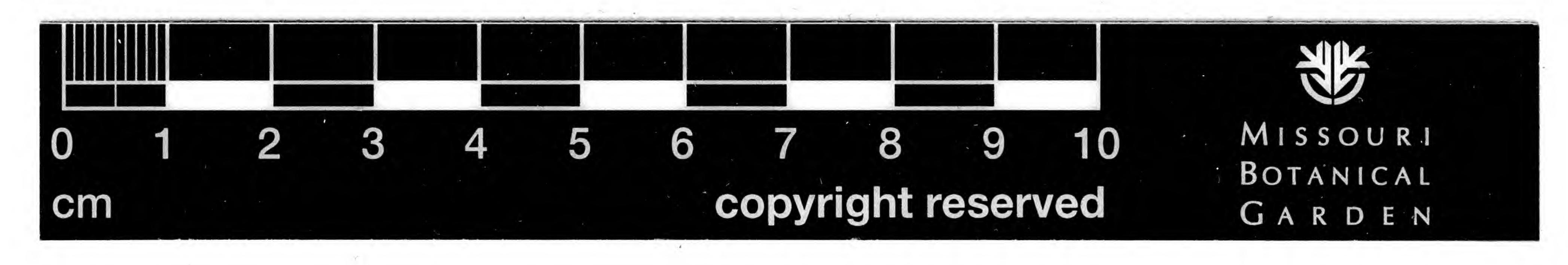




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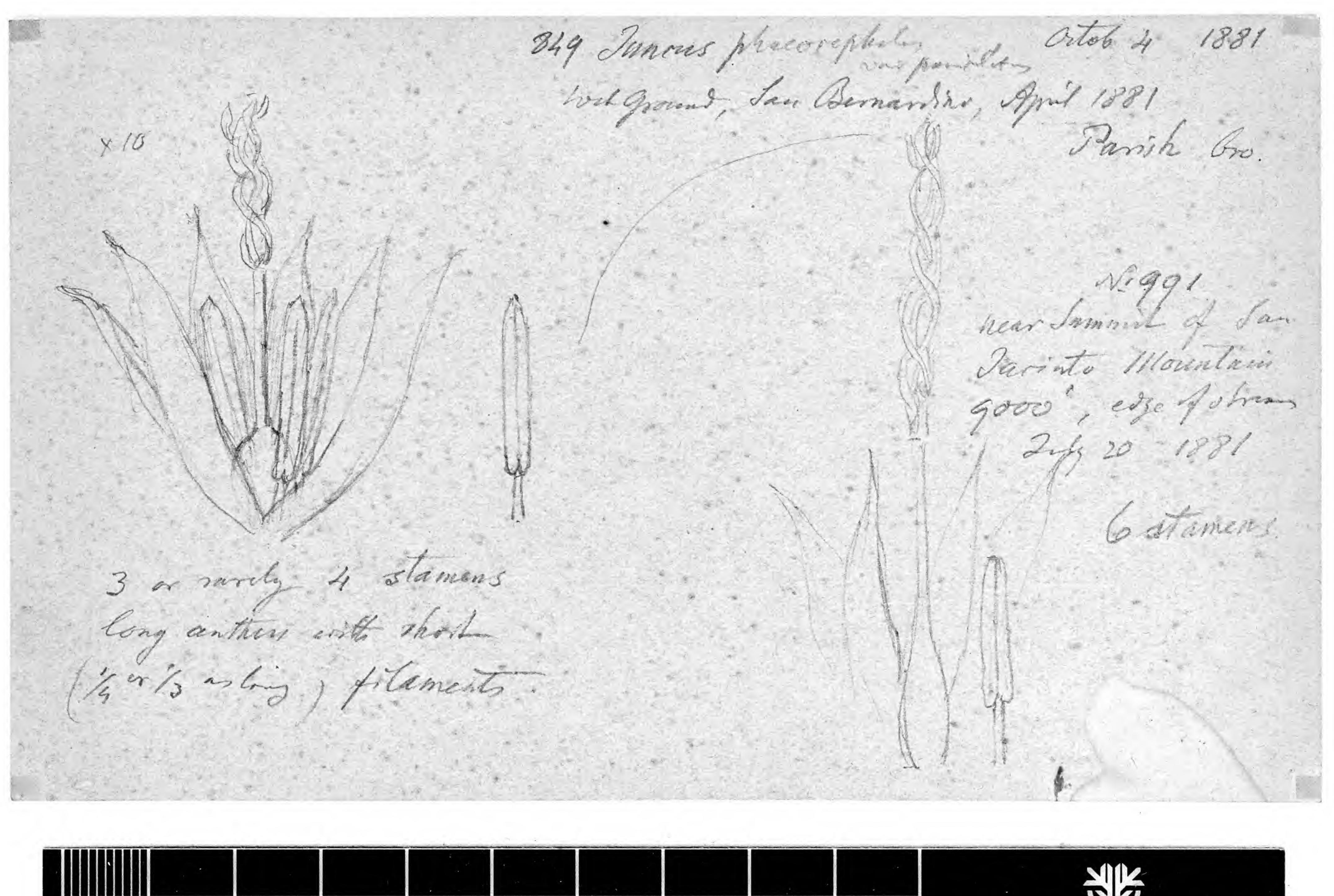


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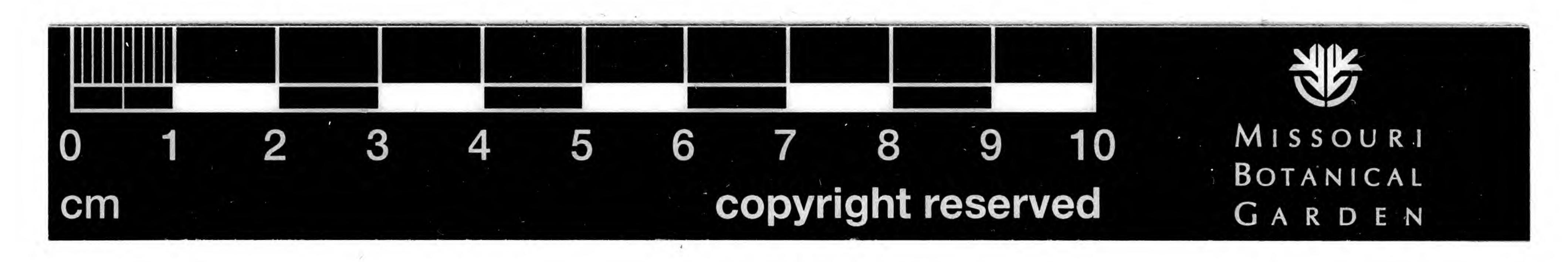
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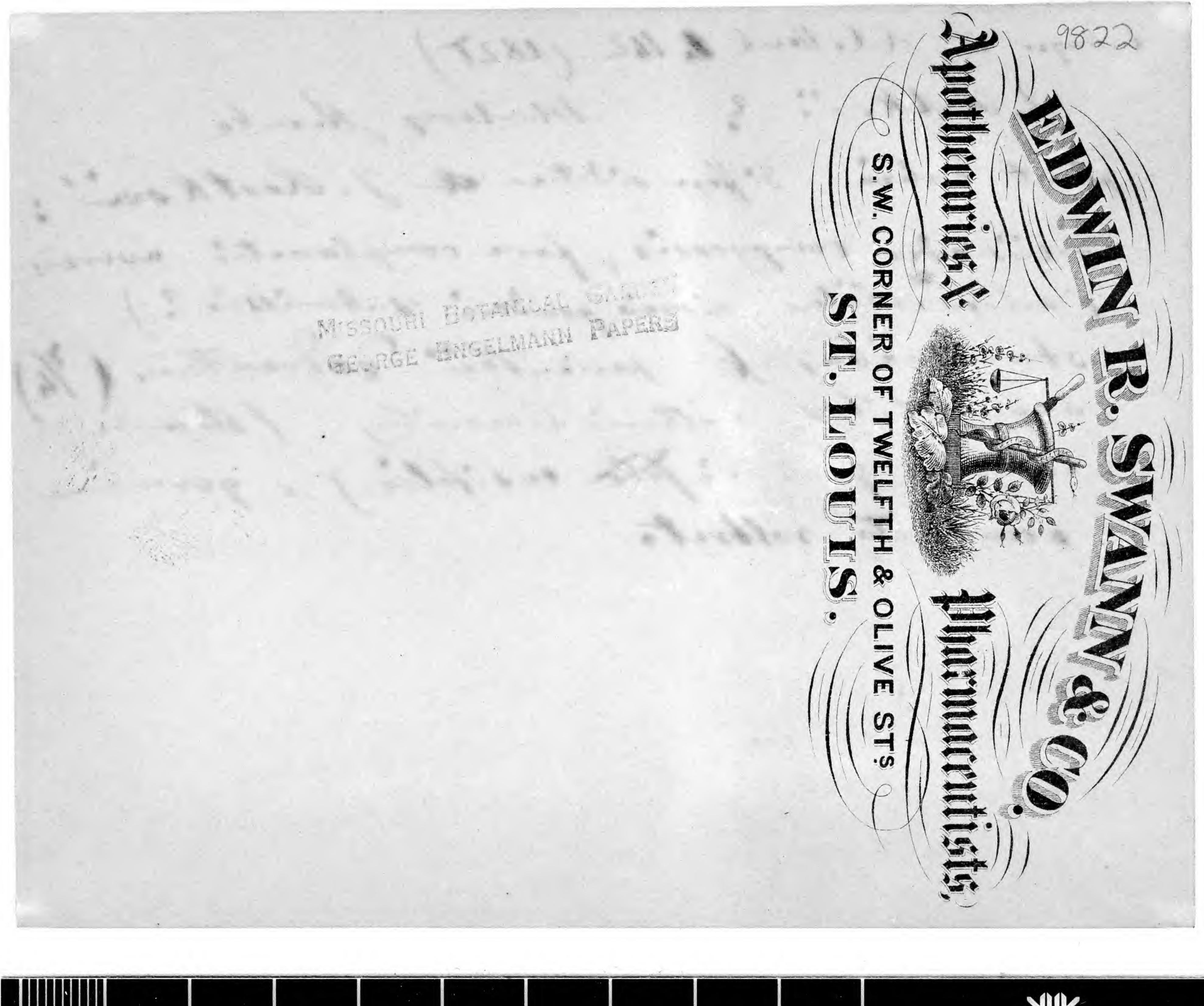
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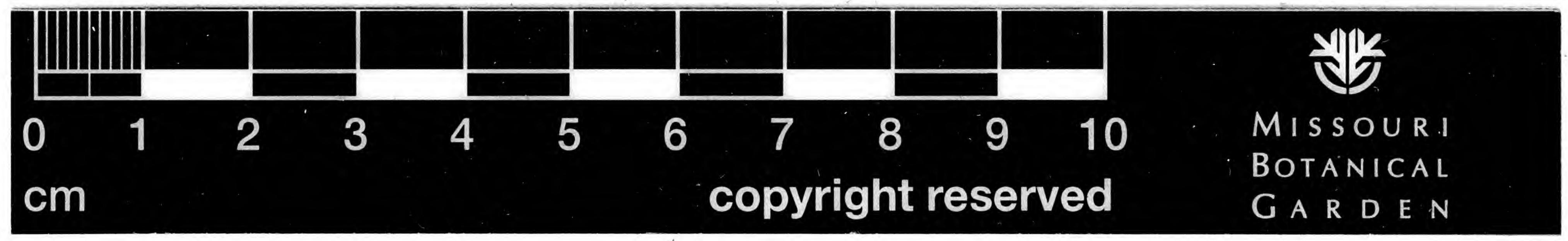


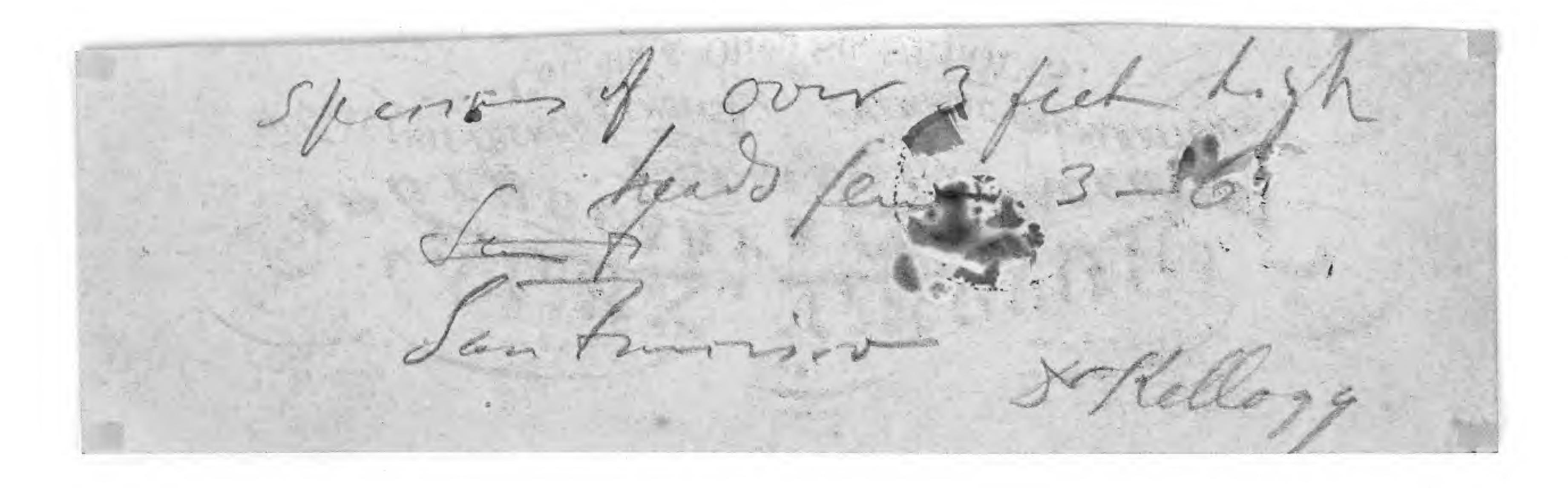


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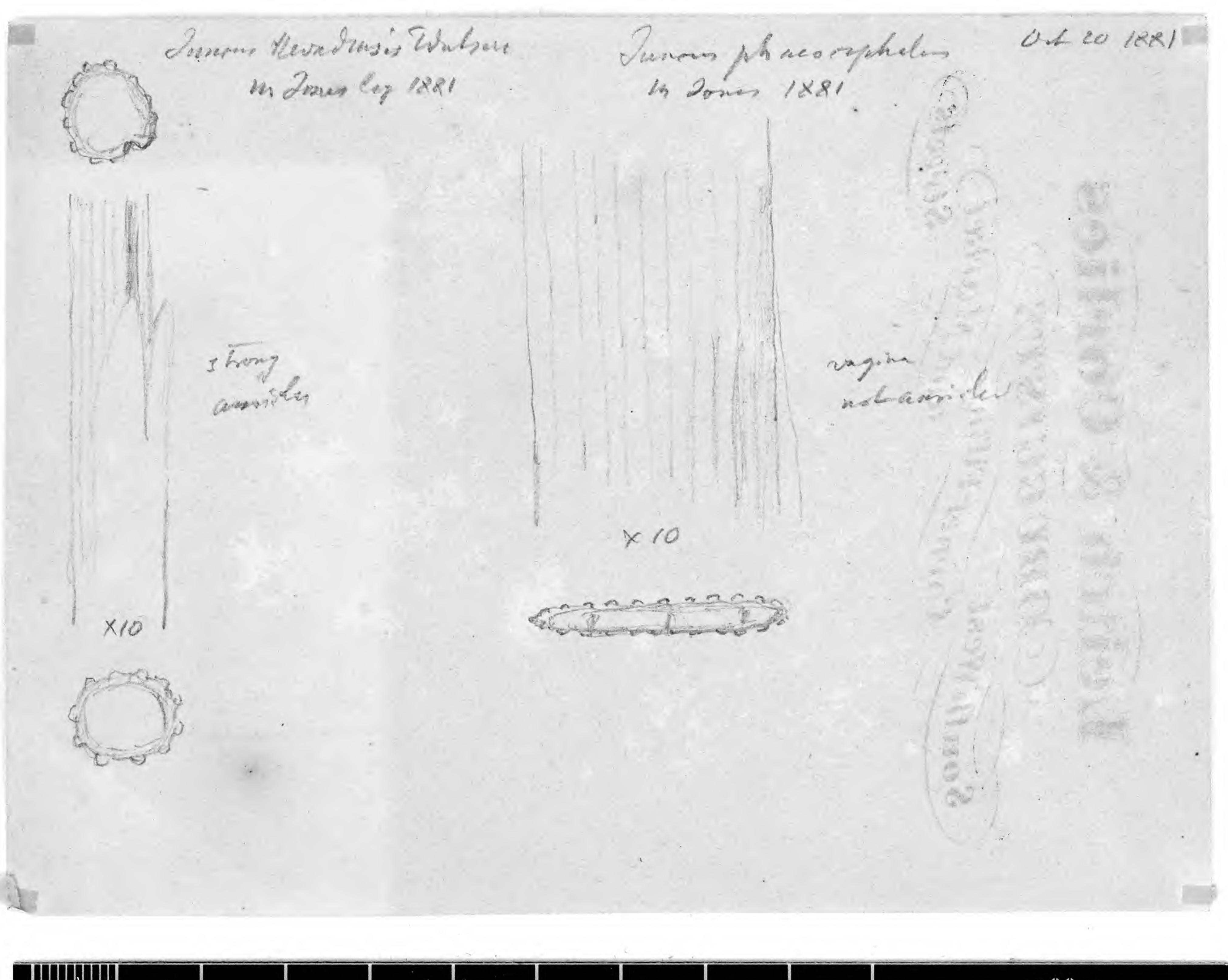


















e (Carboniferous) on the Louis county, Missouri. MISSOURI

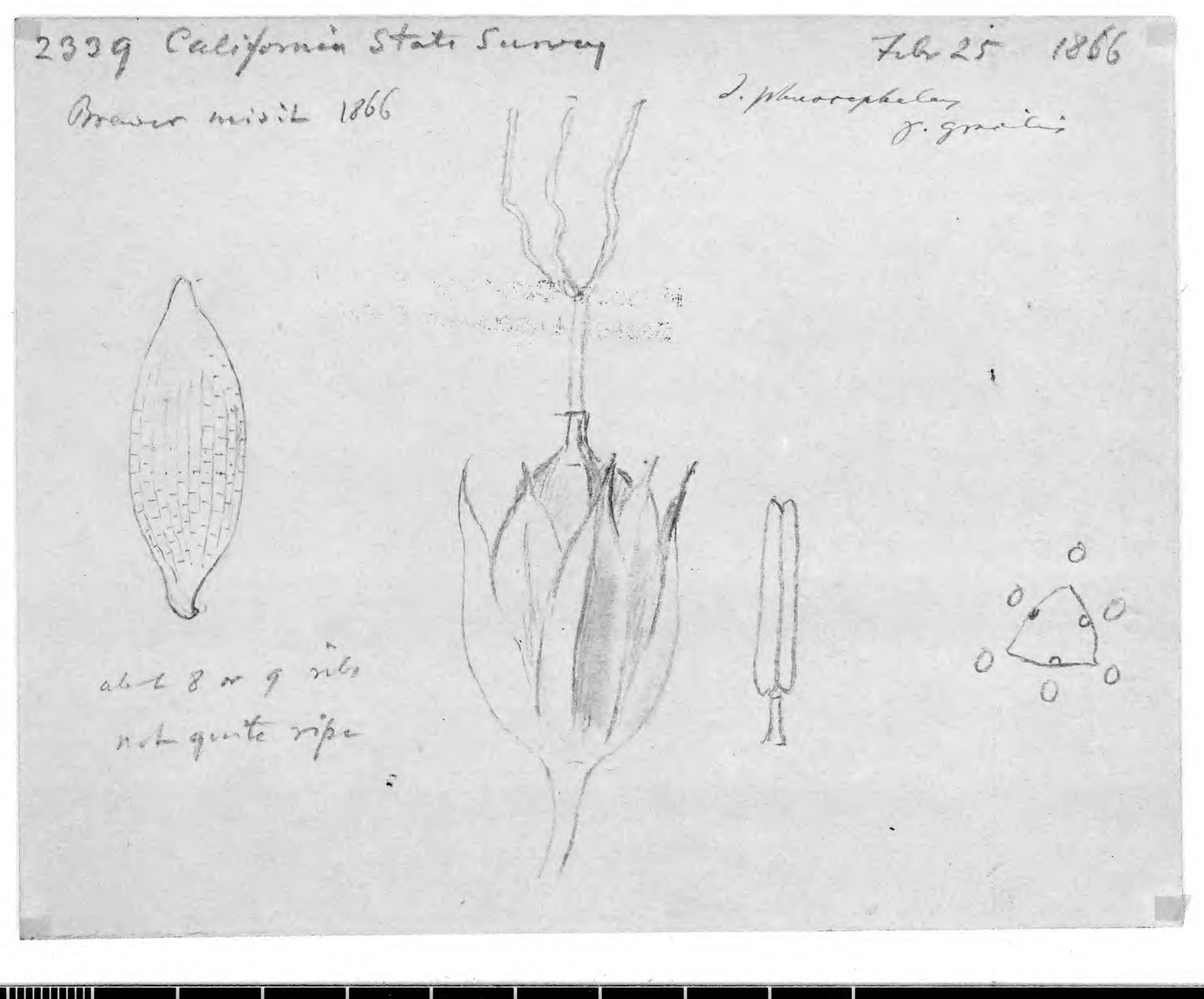
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cumstances prevented me from obtaining more than a crystals, which are now deposited in the collection of Smithsonian Institute; a few others are also in the hand members of the party. We were travelling at the time forced night marches with nearly worn out animals, see to gain a spring of water in a distant range of mount of This desert was then entirely unexplored. I have but doubt that more interesting materials are to be found a

The mountains of the former Territory of Utah promise a ich yield to the mineralogist. We know already of gold and liver ores in the east, west and south part of that district; if copper and lead ores in the south, and I have discovered he latter also in the centre of it; of specular iron ores and ative sulphur in the Rocky Mountains and near Little Salt ake; of rock salt in the mountains south-east of Utah Lake; f native alum near Salt Lake; of various other salts in the eserts; and of silicates, composing the granites, porphyries, iorites, trachytes, and lavas, nearly over the whole area.

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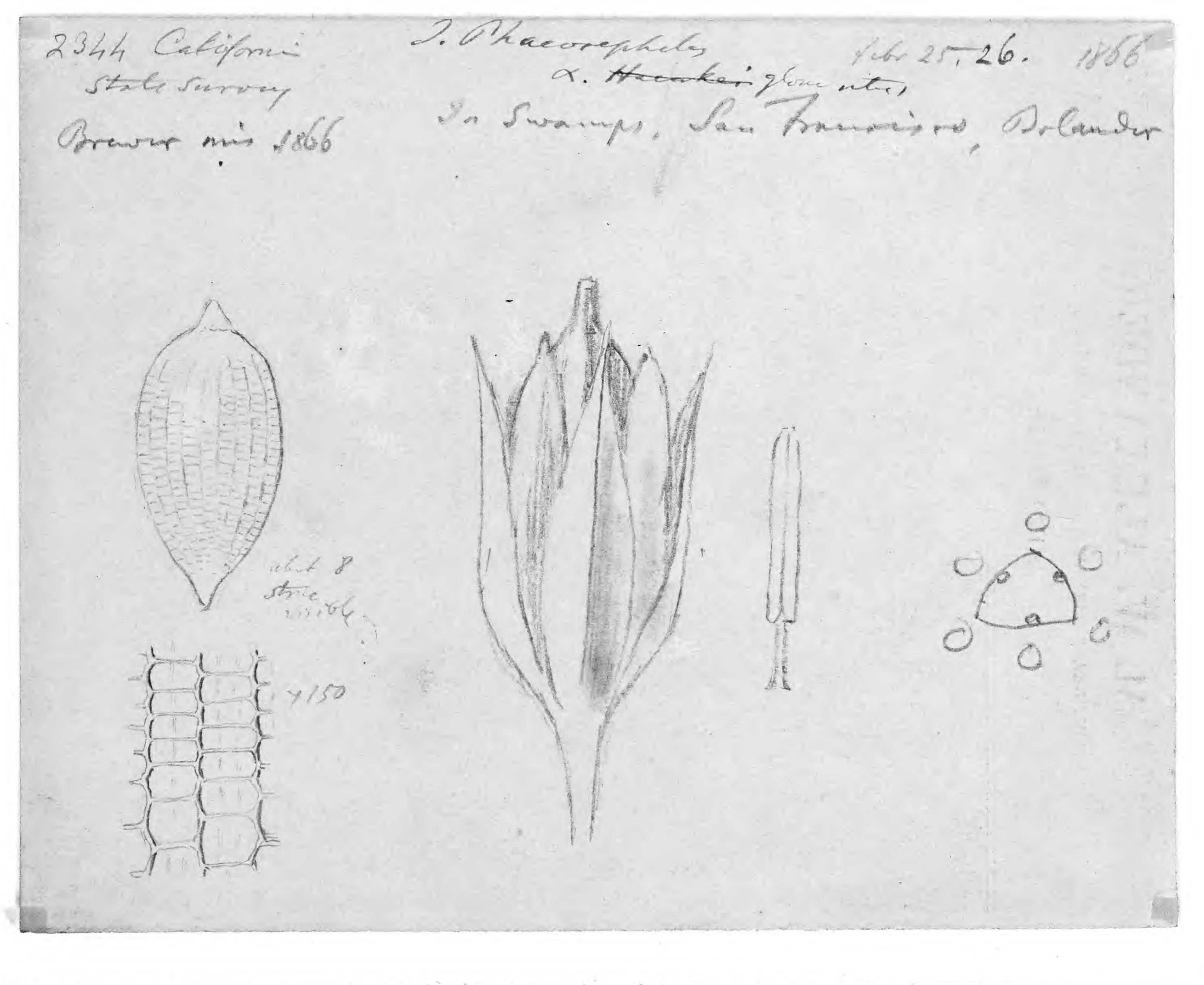


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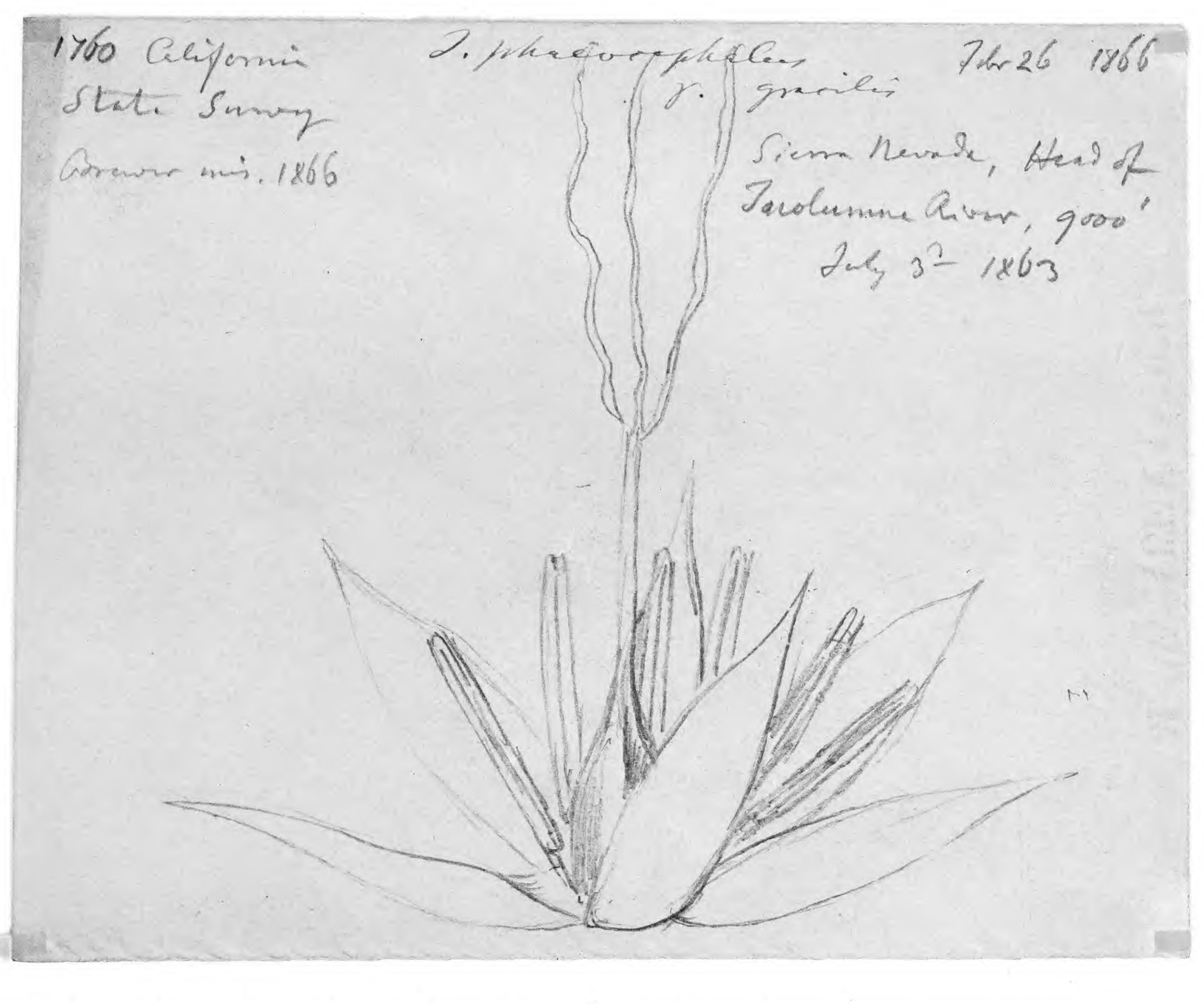




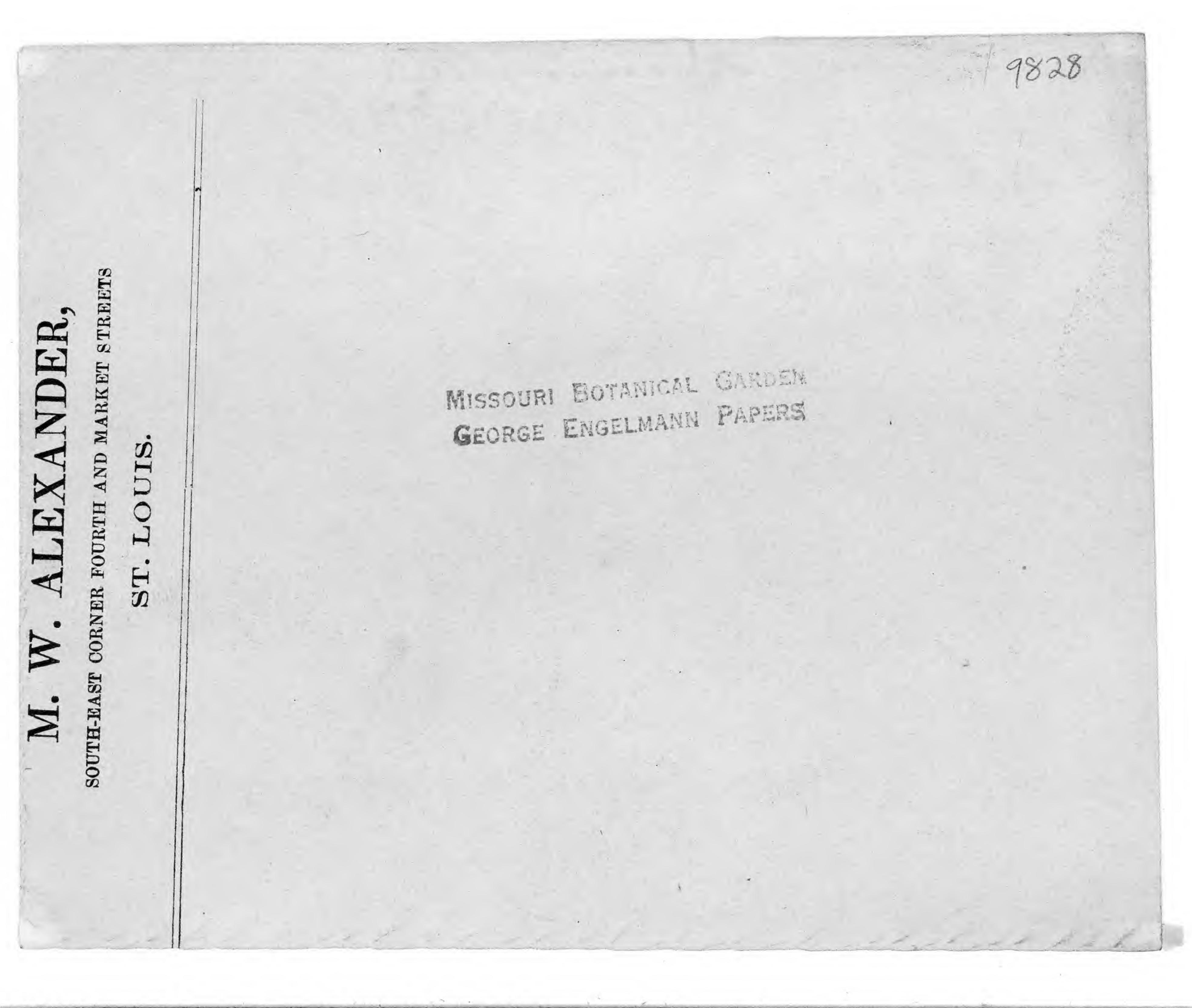




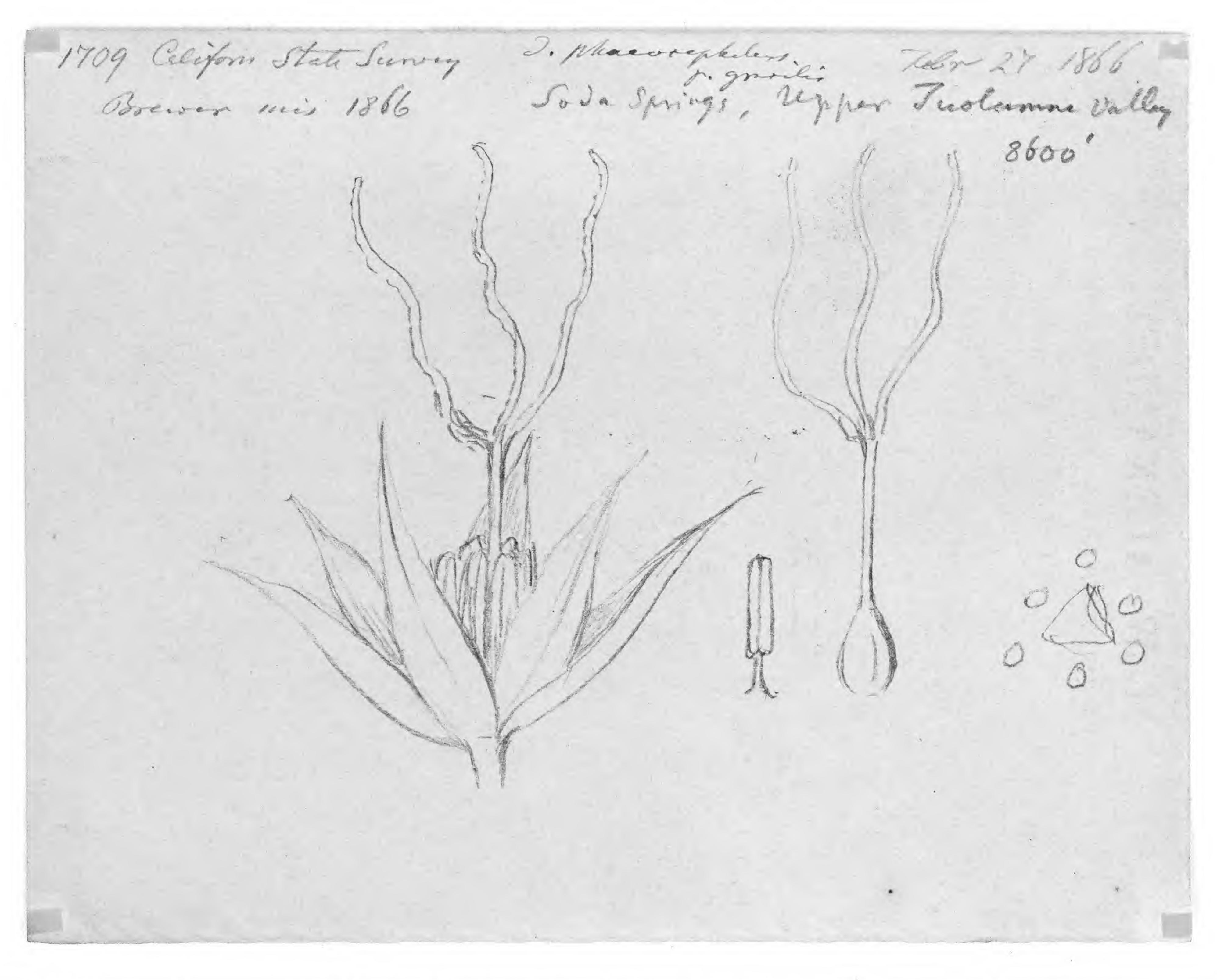














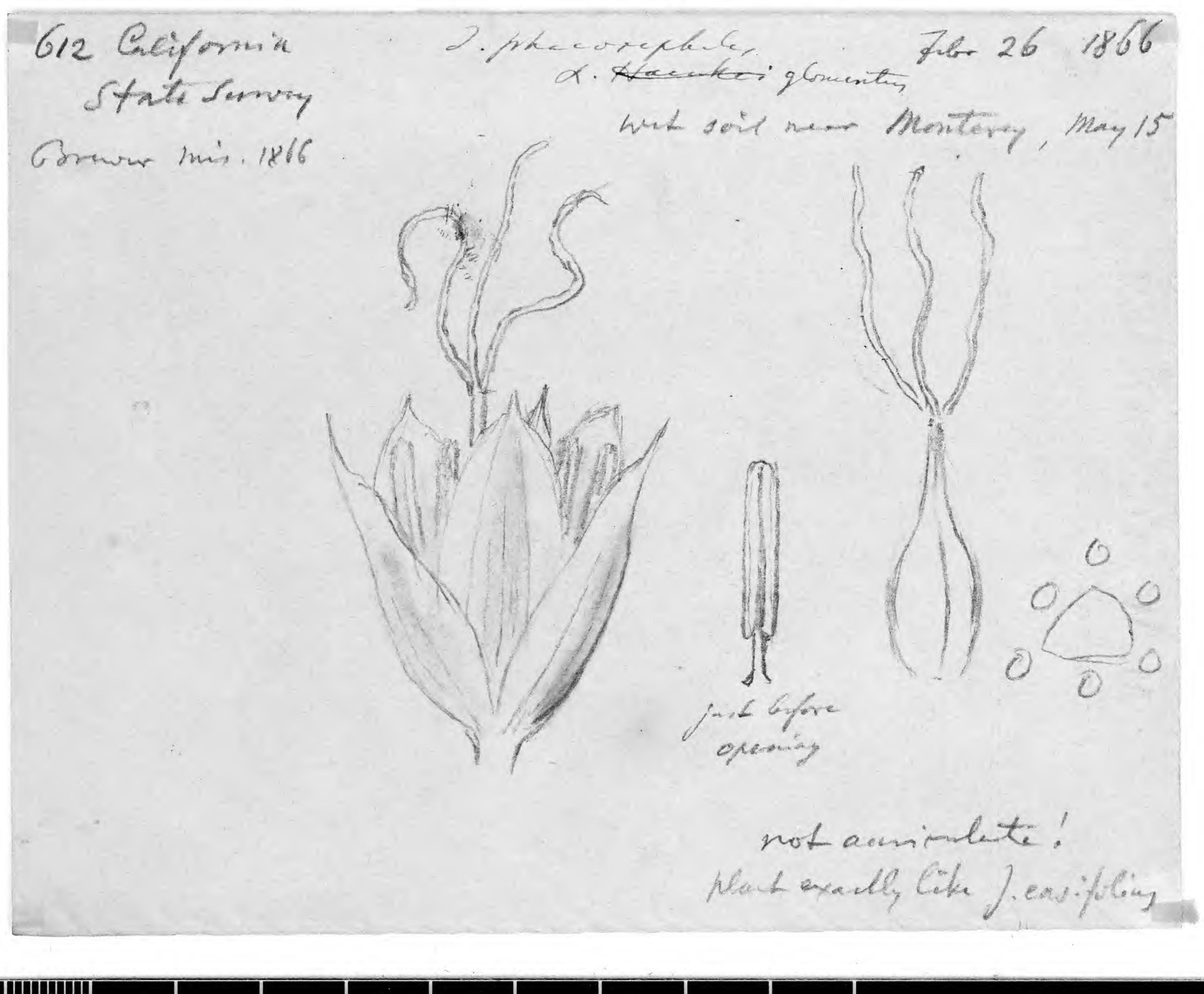
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